

MR. T. R. HOLLCROFT has been appointed instructor in mathematics at Columbia University.

MR. W. H. WILSON, of the University of Illinois, has been appointed instructor in mathematics at the Massachusetts Institute of Technology.

PROFESSOR GASTON DARBOUX, of the University of Paris, and permanent secretary of the Paris Academy of Sciences, died February 22, at the age of 74 years. He was author of a four-volume treatise on differential geometry bearing the title *Théorie générale des surfaces*, a work on orthogonal systems of surfaces, one on the cyclide and allied surfaces, and a large number of memoirs in the leading mathematical periodicals. During the last thirty years he has been a member of more than fifty learned societies.

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

BAILEY (F. H.). See WOODS (F. S.).

BARROW (I.). *Geometrical lectures*. Translated with notes and proofs by J. M. Child. London, Open Court, 1917. 8vo. 14+218 pp. 4s. 6d.

BÔCHER (M.). *Leçons sur les méthodes de Sturm dans la théorie des équations différentielles linéaires et leurs développements modernes, professées à la Sorbonne en 1913-1914*. (Collection de Monographies sur la Théorie de Fonctions publiée sous la Direction de M. Émile Borel.) Recueillies et rédigées par G. Julia. Paris, Gauthier-Villars, 1917. 8vo. 6+118 pp. Fr. 5.00

BOREL (E.). See BÔCHER (M.).

CAJORI (F.). *A history of elementary mathematics with hints on methods of teaching*. Revised and enlarged edition. New York, Macmillan, 1917. 8vo. 8+324 pp. \$1.75

CHILD (J. M.). See BARROW (I.).

JULIA (G.). BÔCHER (M.).

DE MONTESSUS DE BALLORE (R.). *Leçons sur les fonctions elliptiques en vue de leurs applications*. Paris, Gauthier-Villars, 1917. 8vo. 10+268 pp. Fr. 12.00

REY PASTOR (J.). *Fundamentos de la geometría proyectiva superior*. (Junta para ampliación de estudios e investigaciones científicas, Laboratorio y seminario matemático publicaciones, Tomo 1.) Madrid, 1916. 8vo. 22+444 pp. Pes. 12.00

- SIBIRANI (F.). Riassunto formulario di geometria analytica, algebra, calcolo infinitesimale, calcolo vettoriale e meccanica razionale. Roma, Atheneum, 1915. 8vo. 4+575 pp. L. 12.00
- WOODS (F. S.) and BAILEY (F. H.). Analytic geometry and calculus. Boston, Ginn, 1917. 8vo. 12+516 pp. \$3.00

II. ELEMENTARY MATHEMATICS.

- CAJORI (F.) and ODELL (L. R.). Elementary algebra, second year course. New York, Macmillan, 1916. 9+197 pp. \$0.75
- DARNELL (A.). See LYMAN (E. A.).
- KLAPPER (P.). The teaching of arithmetic. New York, Appleton, 1916. 387 pp. \$1.45
- LYMAN (E. A.) and DARNELL (A.). Elementary algebra. New York, American Book Company, 1917. 8vo. 8+503 pp.
- MILNE (R. M.). Mathematical papers for admission into the Royal military academy and the Royal military college, September–November, 1916. London, Macmillan, 1917. 32 pp. 1s.
- ODELL (L. R.). See CAJORI (F.).

III. APPLIED MATHEMATICS.

- AKIMOFF (N. W.). Elementary course in Lagrange's equations and their applications to solutions of problems of dynamics with numerous examples. Philadelphia, Philadelphia Book Company, 1917. \$2.00
- BARNARD (R. J.). Elementary dynamics of the particle and rigid body. London, Macmillan, 1917. 7+374 pp. 6s.
- BRAGDON (C.). Projective ornament. Rochester, N. Y., Manas Press, 1915. 79 pp. \$1.50
- CHOW (H. K.). See HUNSAKER (J. C.).
- CLARK (V. E.). See HUNSAKER (J. C.).
- DOUGLAS (D. W.). See HUNSAKER (J. C.).
- F. G. M. Manuel de mécanique conforme au programme de 1905 et de 1911. Tours, A. Mame, et Paris, J. de Gigord, 1916. 16mo. 16+432 pp.
- FURUHJELM (R.). Recherches sur les mouvements propres des étoiles dans la zone photographique de Helsingfors. Helsingfors, Société de Littérature Finnoise, 1916. 190 pp.
- GIBSON (G. E.). See SACKUR (O.).
- HUFF (T. H.). See HUNSAKER (J. C.).
- HUNSAKER (J. C.), HUFF (T. H.), DOUGLAS (D. W.), CHOW (H. K.) and CLARK (V. E.). Dynamical stability of aeroplanes. Washington, Smithsonian Institution, 1916. 78 pp.
- LANCHESTER (F. W.). Flying machines from an engineering stand-point. London, Constable, 1917. 4s. 6d.

- McGEGAN (J. E.). Star identifier and diagrams for the graphical solution of problems in nautical astronomy. London, London Name Plate Manufacturing Company and J. D. Potter, 1916. 10s. 6d.
- MAILLET (E.). Cours de mécanique professé à l'école des ponts et chaussées. Paris, Hermann, 1916. 8vo.
- MELLOR (T.) and PEARSON (H. H.). Housecraft arithmetic. (Longmans' Housecraft series for secondary schools.) London, Longmans, 1917. Cr. 8vo. 112 pp. \$0.45; with answers, \$0.60.
- MILLS (C. N.). A short course in elementary mechanics. New York, Van Nostrand, 1916. 11+127 pp. \$1.00
- PEARSON (H. H.). See MELLOR (T.).
- POLAK (S.) and QUILTER (H. C.). The teaching of drawing. Philadelphia, Lippincott, 1916. 168 pp.
- QUILTER (H. C.). See POLAK (S.).
- RIACH (M. A. S.). Air screws: an introduction to the aerofoil theory of screw propulsion. London, Crosby Lockwood, 1916. 8+128 pp. 10s. 6d.
- SACKUR (O.). A text-book of thermochemistry and thermodynamics. Translated and revised by G. E. Gibson. London, Macmillan, 1917. 16+439 pp. 12s.
- SPARAGEN (W.). See WYNNE (W. E.).
- WYNNE (W. E.) and SPARAGEN (W.). Handbook of engineering mathematics. New York, Van Nostrand, 1917. \$2.00